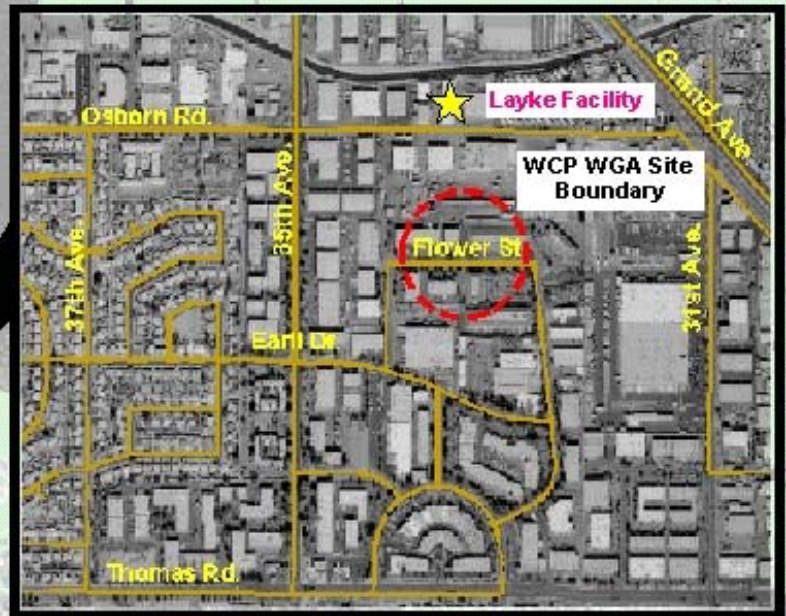


Land and Water Use Report

West Central Phoenix West Grand Avenue Site Phoenix, Arizona



January 2004

Prepared by
Arizona Department of Environmental Quality
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EXECUTIVE SUMMARY

The Arizona Department of Environmental Quality (ADEQ) has prepared this Land and Water Use report for the West Central Phoenix (WCP) West Grand Avenue (WGA) Water Quality Assurance Revolving Fund (WQARF) Registry site to meet the requirements established under Arizona Administrative Code (A.A.C.) R18-16-406 (D). The purpose of the report is to gather information regarding current and foreseeable uses of land or waters that have been or are threatened to be impacted by a contaminant release.

Meetings were conducted with various stakeholders including representatives from the City of Phoenix (COP), Salt River Project (SRP), and local property/well owners to gather information concerning the current and future land and water uses of the site property and surrounding area. Land use on the property and in the surrounding area is predominantly light industrial. The COP Planning Department has no current plans to change zoning or land use in the area.

The COP and SRP currently own and operate groundwater wells within the WCP area. The COP is not currently operating any wells within a one-mile radius of the WCP WGA site boundary. Due to population increases and the consequent increase in water demand, the need may exist to install additional groundwater wells in the WCP area within the next 100 years. SRP maintains two irrigation wells currently not being pumped in accordance with an agreement with the ADEQ. This agreement may remain in place until a remedy selection has been made.

Groundwater in the area is also extracted by the Michigan Trailer Park and Danone Waters of North America. Michigan Trailer Park operates a 400-foot well as the sole water supply source for the Park's residents. Danone Waters extracts water from their 952-foot well for their processing and bottling operation. Neither entity has plans to change the use of wells on their property.

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ACRONYMS

A.A.C.	Arizona Administrative Code
ADEQ	Arizona Department of Environmental Quality
ADWR	Arizona Department of Water Resources
AMA	Active Management Area
AWQS	Arizona Aquifer Water Quality Standard
AWS	Assured Water Supply
BTEX	benzene, toluene, ethylbenzene, and xylenes (total)
CAP	Central Arizona Project
COP	City of Phoenix
1,1-DCE	1,1-dichloroethylene or 1,1-dichloroethene
FS	feasibility study
Layke	Layke, Inc.
LUST	leaking underground storage tank
MCL	maximum contaminant level
MTP	Michigan Trailer Park
µg/L	micrograms per liter
mg/L	milligrams per liter
PCE	tetrachloroethylene or tetrachloroethene
RI	remedial investigation
RO	remedial objective
SRP	Salt River Project
TCA	1,1,1-trichloroethane
TCE	trichloroethylene or trichloroethene
TDS	total dissolved solids
VOC	volatile organic compound
WCP	West Central Phoenix
WGA	West Grand Avenue
WQARF	Water Quality Assurance Revolving Fund

1.0 INTRODUCTION

The Arizona Department of Environmental Quality (ADEQ) has prepared this Land and Water Use report for the West Central Phoenix (WCP) West Grand Avenue (WGA) Water Quality Assurance Revolving Fund (WQARF) Registry site to meet the requirements established under Arizona Administrative Code (A.A.C.) R18-16-406 (D). The purpose of the report is to gather information regarding current and foreseeable uses of land or waters that have been or are threatened to be impacted by a contaminant release.

1.1 Process Overview

The process to complete the remedial investigation (RI) and select remedial objectives (ROs) begins with the completion of the draft RI report. Following the completion of the draft RI report, which includes the land and water use, a public meeting is held to discuss the Use report and solicit input for the selection of ROs. Typically, the public will be given 30 days to comment on the Use report. Following the public meeting and comment period, ADEQ issues the proposed ROs report. The ROs chosen for a site may be based on none, some, or all of the uses identified in the Use report. If there is significant public interest or additional information has been discovered, an additional public meeting to discuss the ROs is held. The Final ROs Report is then prepared and included in the Final RI Report.

1.2 Land and Water Use Report

The purpose of the Land and Water Use report is to gather information regarding current and “foreseeable” uses of land or waters that have been or are threatened to be impacted by a contaminant release, and to project time frames for future changes in those uses. Information gathered from discussions with property owners, water providers, municipalities, and well owners are to be included in the report.

In general, this Land and Water Use report identifies various current and potential future uses of land and water in the vicinity of the WCP WGA site. However, the report does not evaluate the uses, nor does it classify the use as “reasonably foreseeable”. The evaluation of uses will take place during public comment periods, and public meetings and will be presented in the proposed ROs report.

1.3 Site Background

In 1982, a volatile organic compound (VOC), trichloroethylene (TCE), was detected in several City of Phoenix (COP) municipal wells located in WCP. Subsequent groundwater sampling confirmed the presence of TCE at concentrations above the EPA Maximum Contaminant Levels (MCLs). ADEQ subsequently designated the area of groundwater contamination as the WCP WQARF area and recommended further study under the WQARF. The WCP WQARF area was

placed on the WQARF Priority List in 1987.

In 1998, the following five WQARF Registry sites were established pursuant to A.R.S. §49-287.01 within the WCP WQARF area:

- West Grand Avenue;
- East Grand Avenue;
- West Osborn Complex;
- North Canal; and
- North Plume.

Figure 1-1 presents the WCP WGA site as redefined in June 2003.

The contaminant known to be present at levels above regulatory limits in the groundwater in the WCP WGA site includes the chlorinated solvent TCE. The Layke Incorporated (Layke) facility, located at 3330 West Osborn Road in Phoenix, Arizona, has been identified as the source of the groundwater contamination in the WCP WGA site (Figure 1-2).

1.4 General Groundwater Quality

Groundwater in the WCP WGA site and the surrounding area generally contain concentrations of total dissolved solids (TDS) ranging from 415 milligrams per liter (mg/L) to greater than 1,000 mg/L (Brown and Pool, 1989; Daniel, 1981). The principal ions present within local groundwater include sodium, calcium, chloride, and bicarbonate (Reeter and Remick, 1986). Salt River Project (SRP) data for TDS in wells within the WCP area range from 554 mg/L to 965 mg/L (SRP, 1999). Data collected in 1996 from wells WCP-4, WCP-8, WCP-10 and WCP-11 in the WCP WGA site for TDS ranged from 470 mg/L to 2,300 mg/L. The EPA has not set an MCL for TDS, however, there is a secondary standard of 500 mg/L TDS for drinking water. The secondary standards are non-enforceable guidelines regulating contaminants that may cause aesthetic effects in drinking water.

Based on analytical data collected by the SRP from wells located in the WCP area, other general groundwater quality parameters such as nitrate and arsenic are within current regulatory guidelines for drinking water uses (SRP, 1999). Nitrate analyses in 1999 for the two SRP wells closest to the WCP WGA site were below the MCL of 10 mg/L as were data collected by USGS in 1980 to 1985 (Brown and Pool, 1989). Arsenic was not detected in SRP samples and was typically below 0.074 mg/L in USGS data.

In the past, the concentration of TCE in groundwater in the WCP WGA site has exceeded the Arizona Aquifer Water Quality Standard (AWQS) of 5 micrograms per liter (µg/L) in two wells: WCP-4 and WCP-10. However, the AWQS for TCE is currently exceeded in well WCP-10 only. Also in the past, concentrations of 1,1-DCE in groundwater were detected in wells WCP-4 and WCP-10 below the AWQS. Currently, 1,1-DCE is not detected in any of the wells within the WCP WGA site.

In the past, other contaminants have been detected in groundwater in the WCP WGA site at concentrations below their respective AWQSSs. These included benzene, toluene, 1,1-dichloroethane (1,1-DCA) and 1,1,1-trichloroethane (TCA). Currently, these contaminants are not detected in any of the wells within the WCP WGA site.

2.0 USE EVALUATION

The following sections outline current and foreseeable land and water uses for the WCP WGA site and the surrounding area. Reasonably foreseeable uses for land are those uses of land likely to occur at the site within a reasonable time period. Reasonably foreseeable uses of water are those likely to occur within 100 years unless a longer time period is shown to be reasonable based on site-specific circumstances [A.A.C. R18-16-406 (D)].

A list of contacts, meetings, and interviews conducted as part of the use evaluation is presented in Table 2-1.

2.1 Land Uses

Development in the area occurs consistent with zoning laws and must go through a site-planning review and permit process. Current zoning districts in the site area are identified below and a more detailed description of COP zoning designations can be found in Table 2-2. The property lies within the southern portion of Alhambra Village and is bordered by the villages of Maryvale on the west and south, and Encanto on the east (Figure 2-1). Each village located within the COP has a Planning Coordinator who has input into planning decisions for that community. Contact information for the Village Planning Coordinators can be found in Table 2-3 (COP, 2003a).

2.1.1 Current Site-Specific Land Use

Layke began operations at the facility in 1967. Operations included the manufacturing of various metal parts for precision machining equipment used in the aircraft, aerospace, and electronic industries. The current zoning designation for the Layke facility is A-2, Industrial District (COP, 2003b).

2.2.2 Current Regional Land Use

The current land use surrounding the WCP WGA site is predominantly A-1 (Light Industrial) and A-2 (Industrial) (Figure 2-2). Residential areas (Zoned R-5 and R1-6) lie approximately 1/5 mile southwest of the Layke facility. Various commercial zones also border the area.

2.2.3 Future Land Use

Meetings with the COP Planning Department, including the Alhambra and Maryvale planning coordinators, indicated that there are no foreseeable plans to alter current zoning districts in the WCP WGA site vicinity, nor are there any special projects in the area. However, property owners can file to change the zoning designation of their property. Requests for zoning changes must go through a public hearing and be approved by the City Council prior to finalization.

2.2 Groundwater Uses

The WCP WGA site lies within the Phoenix Active Management Area (AMA) created by the Arizona Groundwater Management Code passed in 1980. All groundwater legally withdrawn from any AMA must occur under a groundwater right or permit, unless groundwater is being withdrawn from an exempt well. An exempt well is defined as having a maximum discharge capacity of 35 gallons per minute or less. All exempt wells must be registered with the Arizona Department of Water Resources (ADWR). Non-exempt wells have a discharge capacity greater than 35 gallons per minute and are associated with one of the following types of rights or permits (ADWR, 2001a):

- Grandfathered rights—derived from past individual water use. There are three types of grandfathered rights:
 - Irrigation grandfathered rights;
 - Type 1 non-irrigation grandfathered rights;
 - Type 2 non-irrigation grandfathered rights;
- Service area rights—allow cities, towns, private water companies and irrigation districts to withdraw groundwater to serve their customers; or
- Withdrawal permits—allow new withdrawals of groundwater for non-irrigation uses within AMAs. There are eight types of withdrawal permits covering various groundwater uses that are subject to different requirements. Examples of withdrawal permits include general industrial use permits, dewatering permits, and poor-quality groundwater-withdrawal permits.

Grandfathered rights are derived from past individual water use. An irrigation grandfathered right is the right to use groundwater to irrigate specific acres of land. The amount of groundwater that can be used is specified in the right; however, the amount will vary over time according to a formula established in the management plans. A Type 1 non-irrigation right is associated with land permanently retired from farming and converted to a non-irrigation use. The maximum amount of groundwater that may be pumped each year using a Type 1 right is three acre-feet per acre of land. An irrigation grandfathered right and a Type 1 non-irrigation right may not be sold apart from the associated land. Figure 2-3 presents irrigation grandfathered rights and Type 1 non-irrigation rights in the WCP WGA site area.

Groundwater withdrawn under a Type 2 right can only be used for a non-irrigation purpose. Type 2 rights are the most flexible because they can be sold separately from the land or well. In addition, the owner of a Type 2 right may, with ADWR approval, withdraw groundwater from a new location within the same AMA.

Groundwater wells having either grandfathered Type 2 irrigation rights (private use) or service area permits (municipal and utility use) within a one-mile radius of the Layke facility have been identified and are presented in Table 2-4.

There are approximately 300 registered wells in the area that are permitted to withdraw groundwater to monitor aquifer conditions. A list of these wells is included in Appendix A for reference.

The following sections present detailed information regarding specific uses of wells in or near the WCP WGA site.

2.2.1 Municipal and Utility Groundwater Use

The COP and SRP pump groundwater to a certain degree to satisfy their customer needs. The following sections discuss the current and future groundwater uses of the COP and SRP.

2.2.1.1 City of Phoenix

The COP receives water from four major sources: SRP, the Colorado River through the Central Arizona Project (CAP), reclaimed water, and groundwater (COP, 2000). The portion of water supplied by SRP is from reservoirs on the Salt and Verde Rivers and from groundwater wells. The “On-Project” area, which refers to approximately 30 percent of the water service area entitled to water delivered by SRP, is generally south of the Arizona Canal (Figure 2-4). The WCP WGA site lies within the northern section of the On-Project Area. The “Off-Project and Non-member Area” is supplied primarily by CAP water, supplemented by reclaimed water and water stored at Horseshoe Dam on the Verde River. Groundwater is supplied from wells operated by the COP. Although less than 5 percent of current total water deliveries are from groundwater, the COP uses groundwater to ensure adequate supplies during drought periods and temporary water system outages (COP, 2000).

The COP owns and maintains ten wells in the WCP area (Figure 2-5). Due to water quality degradation and the establishment of more stringent drinking water quality standards in recent years, most of these wells were placed on inactive status by 1989 because the water they produce does not meet current regulatory standards (Table 2-5). COP-70 and COP-71 are located near the WCP WGA site boundary. These wells were capped in 1982 due to TCE contamination above the MCL (COP, 2001a).

2.2.1.1.1 *Future COP Needs*

According to information provided by COP, the COP estimates that by 2010, 18,000 acre-feet per year of new well capacity will be needed to provide back up water supplies during future drought events (COP, 2000). The additional new well capacity is expected to increase to 140,000 acre-feet by 2050. Reportedly, these increases would require up to 80 new wells by 2050. The COP is currently drilling all of its new production wells in the northeast Phoenix area, but future expansion is limited by concerns over potential land subsidence and competing demand from Scottsdale production wells just across the Phoenix-Scottsdale boundary (COP,

2001b). The state-mandated Assured Water Supply (AWS) Rules limit the depth to which groundwater levels may be lowered through future pumping to 1,000 feet below land surface over the next 100 years. In addition, the COP anticipated that many of the northeast Phoenix wells will require expensive treatment to remove arsenic if the MCL of 10 µg/L is implemented (COP, 2001b). The new arsenic rule became effective on February 22, 2002. The date by which systems must comply with the new 10 µg/L standard is January 23, 2006.

According to COP, possible well field expansion may occur in the WCP area despite water quality problems because groundwater elevations there are several hundred feet higher than in other potential expansion areas and arsenic levels are not a concern. The COP is unlikely to restore previously closed wells to production due to the high cost of wellhead treatment and because of other physical and ADWR regulatory limits (COP, 2001b). According to COP, it is possible, however, that existing well sites could be redrilled with new wells (COP Meeting, 2001).

COP's continued interest in future well development in the Central Phoenix wellfields led COP to the development of computerized tools that would assist the City in evaluating the suitability of groundwater resources in the Central Phoenix area. The primary goal of the project was to aid the City in evaluating the general location and timing of future groundwater resources development for the COP public water supply. As part of the project, COP evaluated the entire water service area for future well development and assigned numerical scores, based on established criteria. Based strictly on the statistical evaluation of the scores, COP indicates that areas with scores in at least the 75th percentile (scores ≥ 81) may warrant consideration for future well development. The area where the WCP WGA site is located at scored 74, therefore, it may not be considered for future well development (COP, 2002).

2.2.1.2 Salt River Project

Groundwater comprises approximately 15 percent of the water supplied by SRP to municipal treatment plants; however, groundwater contribution varies seasonally with the highest contribution occurring March through August. Historically, there has been enough surface water to meet demand in only one out of every three years. During extended periods of low run off, groundwater can account for almost one-third of the total SRP water supply (SRP, 1999).

SRP operates and maintains nine irrigation wells within the WCP area (Figure 2-5). Four of these wells (11.2E-7.7N, 10.5E-7.5N, 9.5E-7.7N, and 8.5E-7.5N) have been affected by TCE contamination; two of which are within a one-mile radius of the WCP WGA site (Table 2-2). The two wells are 9.5E-7.7N, which is northwest (crossgradient) of the contaminant plume and well 10.5E-7.5N, which is located approximately 450 feet northeast (upgradient) of the site (Figure 2-3). SRP and ADEQ have had an agreement since 1999 to not pump wells located near WQARF sites in the WCP area due to these influences on contaminant plume migration. Annual pumping rates from the WCP area wells were considerably lower in the past 30 years than the previous 30 years. This was due in large part to above normal precipitation on the watershed and the increased availability of surface water through this period. In recent years, the CAP and the

Arizona Water Banking Authority have made it possible for SRP to use Colorado River water in lieu of pumping groundwater.

2.2.1.2.1 *Future SRP Needs*

Although not in use at this time, SRP has no plans to eliminate any of the wells in the WCP area from their system. Based on demand analysis, SRP has indicated it will continue to need the wells in the area to remain operational, especially during dry years. Current monthly demand (1999-2000) for the section of the Grand Canal downstream from the WCP WQARF area ranges from less than 1,000 acre-feet in the winter months to more than 10,000 acre-feet in the peak summer months. Based on this demand, SRP anticipates that future pumping needs from the four wells affected by TCE contamination during dry years are as follows:

- 60 to 80 percent of the time during the summer months (June to August);
- 20 to 40 percent during shoulder months (March through May and September through October), and
- 0 to 10 percent during the winter months (November through February). In wet years, the wells would most likely be used minimally, if at all (SRP, 2001).

SRP indicated to ADEQ that it has future plans for the construction of a drinking water treatment plant planned at the end of the Grand Canal. If the treatment plant is constructed, overall water demand will likely increase. Additionally, a drinking water treatment plant on the Grand Canal will require that water sources discharging to the canal comply with more stringent water quality criteria. Currently, SRP does not plan on installing any new wells in the WCP area (SRP, 2001).

2.2.2 Private Groundwater Use

Private groundwater use, or non-municipal groundwater use, in the WCP WGA site area consists of a domestic well used by the Michigan Trailer Park and, a water supply well used by Danone Waters of North America, and an irrigation well located at 3600 West Osborn Road, owned by Capitol Liquidators.

2.2.2.1 Michigan Trailer Park

The Michigan Trailer Park (MTP), located west of the Layke facility at 3135 Grand Avenue, is a 150-pad mobile home and RV park with a current average year-round occupancy of 90 pads. The sole water supply source for the park is from a 400-foot well (MTP-1) located on the MTP property. The well, which is cross gradient to the WCP WGA site and close to SRP Well 10.5E-7.5N, has an approximate pumping capacity of 85 to 100 gallons per minute and serves approximately 135 to 180 residents. The property was sold prior to the finalization of this report. However, the previous owner stated that there were no plans to remove the well from service.

An elevated nitrate concentration from a December 1999 sample caused Maricopa County to request monthly nitrate testing to investigate the need for shutting down the well. All results previous to and since the 1999 sample have been below the nitrate MCL of 10 mg/L. Maricopa County is not requiring MTP to shut down the well at this time and it is expected that the well will remain in service indefinitely.

VOC analyses have also been conducted on samples collected from MTP-1. PCE and TCE have been detected in samples collected from MTP-1. However the concentrations detected have been below the AWQS of 5 µg/L established for each compound. PCE has been detected at a concentration of 0.8 µg/L and TCE has been detected at concentrations ranging from 0.3 µg/L to 0.6 µg/L. The analytical results for samples collected from MTP-1 are considered estimated values due to possible contaminant carryover and/or because the detected value was below the laboratory reporting limit but above the method detection limit.

2.2.2.2 Danone Waters

Danone Waters of North America, formerly owned by McKesson Water Inc., operates a water processing, bottling, and distribution plant approximately one-half mile southwest (down gradient) of the WCP WGA site boundary. The business has been at their present location since 1974 and expanded their facility a couple of years ago. Danone owns three Grandfathered Groundwater Rights (Type 2 non-irrigation rights) for a total of 163 acre-feet and operates a 952-foot well located on the property, which has a pumping capacity of 225 gallons per minute. Danone samples the well regularly and results have not shown detectable concentrations of VOCs. Prior to bottling, groundwater undergoes several treatment steps including reverse osmosis. The company has discussed the feasibility of installing an additional well on-site for back up purposes although no decisions have been made at this time.

2.2.2.3 Other Private Wells

The irrigation well located at 3600 West Osborn Road, commonly referred to as the West Osborn Complex Irrigation Well, is not currently being used. According to ADWR records, this well is not associated with any active grandfathered groundwater right or permit. The last grandfathered groundwater right associated with this well was in 1997. The Type 2 right was conveyed to someone else and this well was taken off of the certificate. The name of the person or entity that the Type 2 right was conveyed to is not available. The well is expected to be abandoned before the end of 2003 by United Industrial Corporation, as part of the ongoing RI at the WCP West Osborn Complex site.

2.3 Surface Water Uses

The Grand Canal is the only surface water body in the vicinity of the WCP WGA site. Water from SRP irrigation wells along the Grand Canal is discharged to the canal, which presently

serves downstream agricultural and urban irrigation customers. A drinking water treatment plant may be constructed at the end of the Grand Canal which would change the end use of the canal water requiring that water discharged to the canal meet stricter water quality criteria than what is currently required.

The Grand Canal is not fully lined in the area of the WCP WGA site (Figure 2-6). The canal is primarily unlined between 19th Avenue and Interstate 17 except for lined portions near Indian School Road, 23rd Avenue, and Interstate 17. The canal is lined on the south bank and on the southern half of the bottom from Interstate 17 to 27th Avenue and on the bottom and both banks from 27th Avenue to 39th Avenue.

3.0 SUMMARY OF USES

The land and water uses described in Section 2.0 most likely relevant to discussion of remedial objectives are presented below.

3.1 Land Uses

The zoning pattern in the area has been long established and there are no foreseeable changes for the future. Land uses for the Layke facility property and within the WCP WGA site area are expected to remain predominantly industrial or light industrial.

3.2 Groundwater Uses

Current and future groundwater uses within the WCP WGA site area include the following:

- The COP anticipates the possible need for additional drinking water wells to augment production in the WCP area sometime in the future.
- SRP owns several irrigation wells in the area and will continue to need operational wells to supplement surface water supplies. A water treatment plant may be built on the Grand Canal sometime in the future, which would change the use of the groundwater from irrigation to drinking water.
- The Michigan Trailer Park is expected to continue to use their well to provide drinking water to park residents.
- Danone Water is expected to continue to use the well located on their property in their bottling operations.

3.3 Surface Water Uses

Currently, there are no surface water uses within the WCP WGA site area.

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TABLES

Table 2-1
Personal Interviews and Contacts

Date	Type of Contact	Party/Attendees	Notes
March 26, 2001	Meeting: COP	Lynda Person, ADEQ Don Richey, ADEQ Tamara Huddleston, AGO Keith Larson, COP Karen O'Regan, COP Karen Peters, COP Bob Pikora, COP Planning Elaine Taylor-Tyler, COP Planning Steve Muenker, COP Planning Nancy Nesky, WESTON Bob Forsberg, LFR	Meeting notes by WESTON available in ADEQ project files.
April 16, 2001	Meeting: SRP	Lynda Person, ADEQ Ana Vargas, ADEQ Bob Forsberg, LFR Kevin Wanttaja, SRP Paul Cherrington, SRP Joe Rauch, SRP Nancy Nesky, WESTON	Meeting notes by WESTON available in ADEQ project files.
June 25, 2001	Telephone Conversation	Celeste Smith Century Wheel and Rim	Notes in Appendix B
June 27, 2001	Interview	Linda Pederson Osborn Investors	Notes in Appendix B
June 27, 1001	Interview	Al Jackson Danone Water	Notes in Appendix B

Table 2-2
Zoning Code Descriptions

Zoning Code	Name	Description/Purpose
A-1	Light Industrial District	Industrial uses designed to serve the needs of the community for industrial activity not offensive to nearby commercial and residential uses.
A-2	Industrial District	Designed to accommodate uses with one or more of the following characteristics: intensive use of property; open uses and/or storage; industrial processes which may involve significant amounts of heat, mechanical, and chemical processing, large amounts of materials transfer, extended or multiple shift operation, large scaled structures. Such uses often function best in association with other similar or supportive uses. Because of the intensity and characteristics of this use class, specific standards are set to maximize their compatibility when adjacent to residential districts or when located on arterial or collector streets.
C-1	Commercial Neighborhood Retail District	Light neighborhood type retail and customer service uses designed to be compatible with each other and nearby residential districts.
C-2	Commercial Intermediate District	Commercial uses of medium intensity designed to be compatible with each other and to provide for a wide range of types of commercial activity within the district.
C-3	Commercial General District	Designed to provide for the intensive commercial uses necessary to the proper development of the community.
CP/GCP	Commerce Park/General Commerce park option	Provides for a broad range of manufacturing, warehousing, distribution and supportive retail sales and services. It is differentiated from the A-1 and A-2 districts, however, in that environmental and site standards ensure a high degree of compatibility with other commerce park options as well as other adjacent uses.
R1-6	Residential	Single family residence 5.30 dwellings/acre – base intensity.
R-5	Residential	Multi family residence 43.5 dwellings/acre – base intensity.

Table 2-3
Village Planning Coordinators Contact Information

Village Name	Planning Coordinator	Phone Number
Alhambra	Robert (Bob) Pikora	(602) 262-6823
Maryvale	Jan Hatmaker	(602) 261-8771
Encanto	Charla McCoy	(602) 261-8726

Information as of July 2003

Table 2-4
Groundwater Wells Within a One-Mile Radius of the WCP WGA Site^{1,2}

Owner	Approximate Distance from Site	ADWR No.	Common Well Name	Location (T, R, Section, Acre160, Acre40, Acre10)	Well Type	Well Use	Water Use	Installed	Well Depth (ft bgs)	Water Level ³ (ft bgs)	Casing Type	Casing Depth (ft bgs)	Pump Rate (gallons per minute)
Capital Liquidators	Crossgradient, 0-0.5 mile	55-603866	WOC Irrigation Well	2N 2E 27 NE, SE, SE	Non-Exempt	Water Production	Irrigation	Unknown	Unknown	Unknown	Unknown	Unknown	50
Nuckols, Bryce	Upgradient, 0-0.5 mile	55-618512	MTP-1 (Michigan Trailer Park)	2N 2E 26 NW, SE, SW	Non-Exempt	Water Production	Domestic	Unknown	400	Unknown	Steel-Perforated or Slotted Casing	Unknown	80
Danone Waters of North America	Crossgradient, 0-0.5 mile	55-800680	Danone	2N 2E 26 SW, NW, SE	Non-Exempt	Water Production	Domestic	04-Jan-74	952	106	Steel-Perforated or Slotted Casing	950	225
Salt River Project	Crossgradient, 0.5-1.0 mile	55-608381	9.5E-7.7N	2N 2E 25 NW, SW, SE	Non-Exempt	Water Production	Irrigation	01-Jun-50	500	110	Steel-Perforated or Slotted Casing	500	1457
Salt River Project	Upgradient, 0.5-1.0 mile	55-608377	10.5E-7.5N	2N 2E 26 SE, NW, NW	Non-Exempt	Water Production	Irrigation	10-Jun-49	698	129	Steel-Perforated or Slotted Casing	698	3254
City of Phoenix	Downgradient, 0.5-1.0 mile	55-626552	No. 70	2N 2E 27 NE, SW, NW	Non-Exempt	Capped/Abandoned	Municipal	01-Apr-55	701	203	Steel-Perforated or Slotted Casing	701	0
City of Phoenix	Downgradient, 0.5-1.0 mile	55-626553	No. 71	2N 2E 27 NE, SW, NW	Non-Exempt	Capped/Abandoned	Municipal	01-May-57	545	194	Steel-Perforated or Slotted Casing	545	0

¹ Information for the danone Water Well furnished by Danone. Information for MTP-1 furnished by Linda Pederson. Other well information from the Arizona Department of Water Resources Well Database.

² A list of groundwater wells used for monitoring or other environmental purposes can be found in Appendix A.

³ Water levels at time of well installation.

ft bgs = feet below ground surface

Table 2-5
Summary of COP Wells in West Central Phoenix^{1,2}

Well No.	Well Status	Reason Well is Not Active	Date Taken Out of Service	Year Drilled	Well Diameter (inches)	Well Depth (feet)	Maximum Pumping Capacity
68	Inactive but not capped	1221 mg/L TDS 34 mg/L Nitrates	3/1986	1953	12	434	750
69	Abandoned	825 mg/L TDS 15mg/L Nitrates	10/1988	1954	16	405	450
70	Capped	8.9 µg/L TCE	9/1982	1955	16	701	800
71	Capped	29.0 µg/L TCE	4/1982	1957	16	545	700
72	Active	N/A	N/A	1959	20	1200	442
151	Capped	3.3 µg/L TCE 16 mg/L Nitrates	3/1989	1962	12	650	850
152	Capped	3.9 µg/L TCE 12 mg/L Nitrates	3/1989	1957	20-12	630	1320
157	Inactive but not capped	14 mg/L Nitrates	11/1989	1962	20	696	1169
77	Unused/Capped	Unknown	Unknown	1952	12	400	Unknown
100	Closed	Ethylene dibromide contamination	10/1984	1952	12	387	Unknown

¹ Information from COP letter to ADEQ, April 2001 except for Wells 77 and 100.

² Information for Wells 77 and 100 taken from the *Water Quality Assurance Revolving Fund Phase I Report. West Central Phoenix Area, Task Assignment E-1, Phoenix, Arizona*. Prepared by Earth Technology Corporation, August 1989.

FIGURES

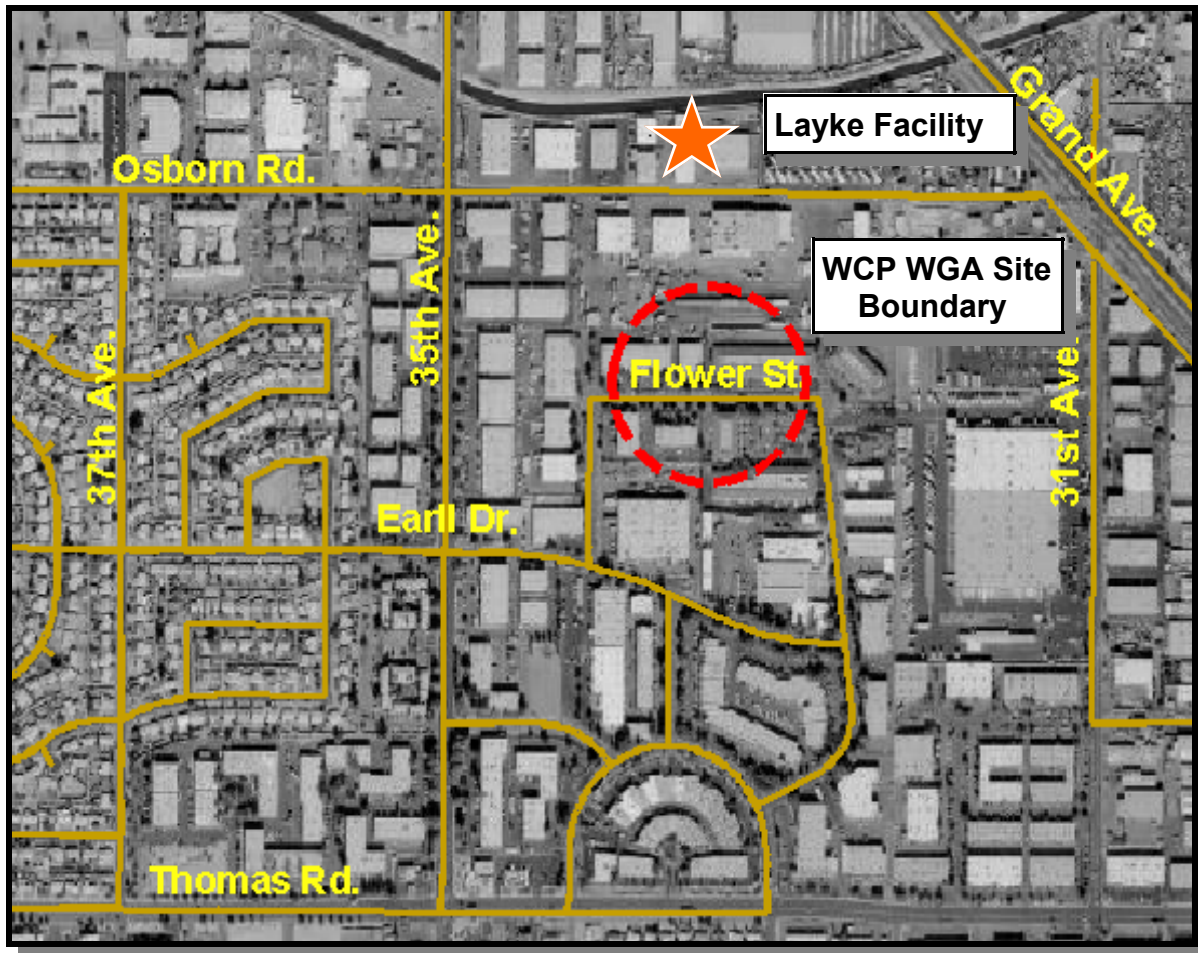


Figure 1-1
WCP WGA Site Boundary

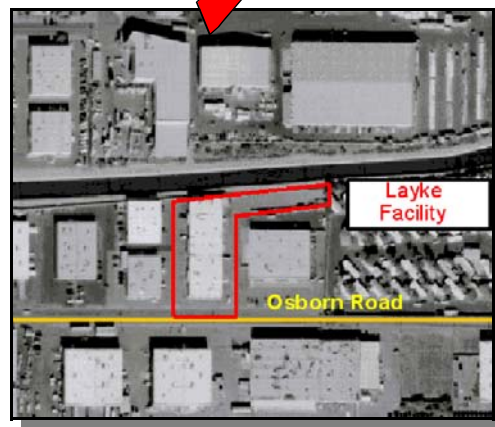


Figure 1-2
Layke Facility Location Map
WCP WGA Site

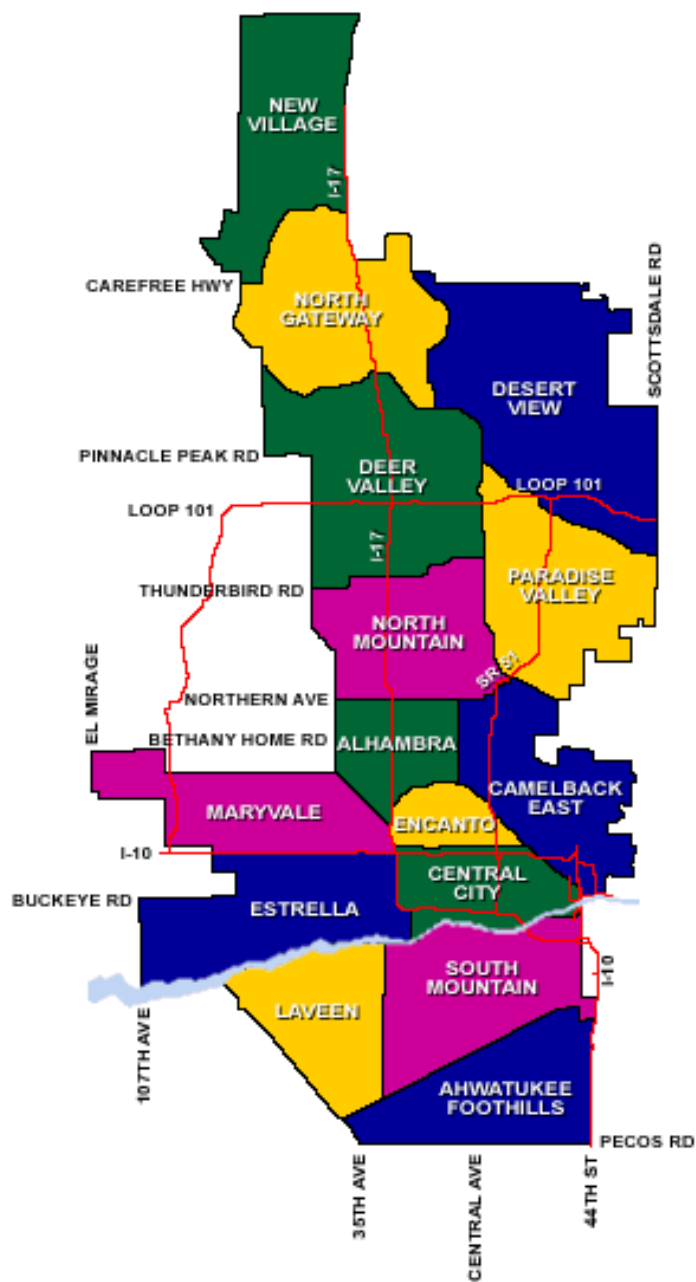


Figure 2-1

City of Phoenix Planning Villages



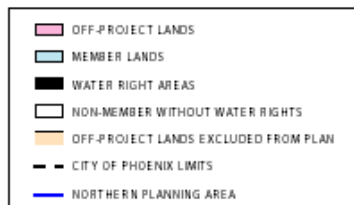
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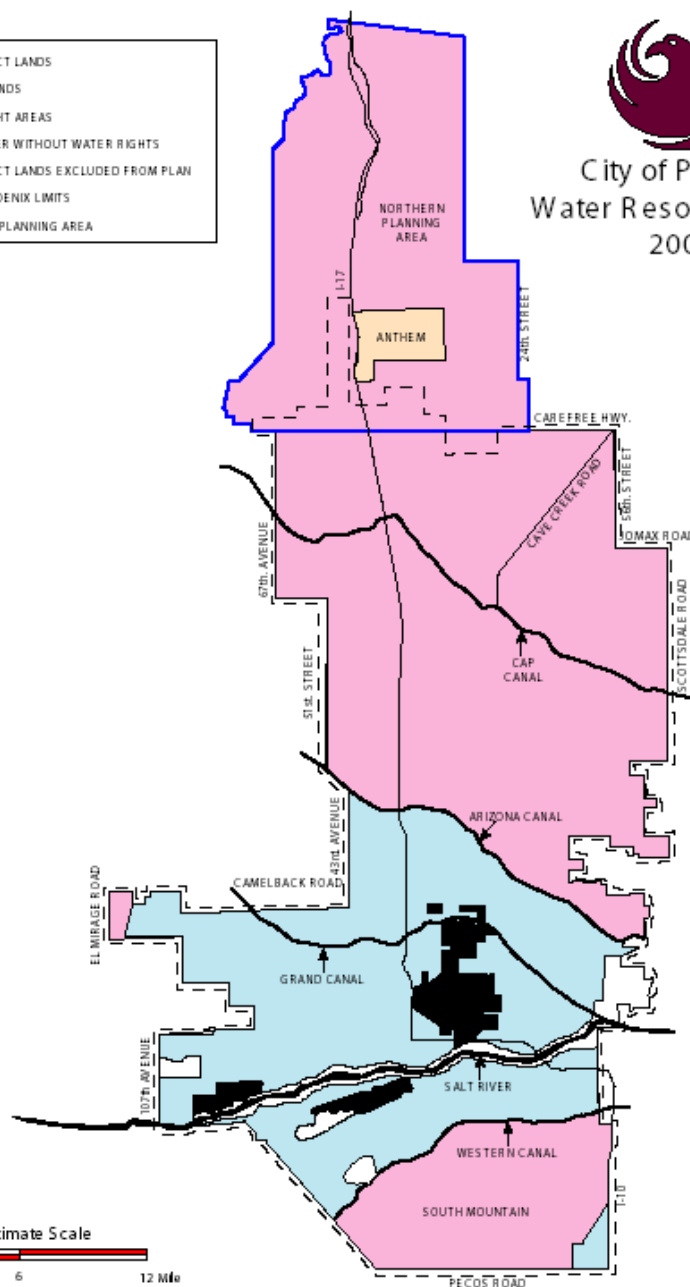
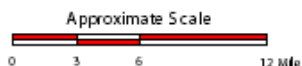
Figure 2-2

Area Zoning Map
WCP WGA Site





City of Phoenix
Water Resources Plan
2000

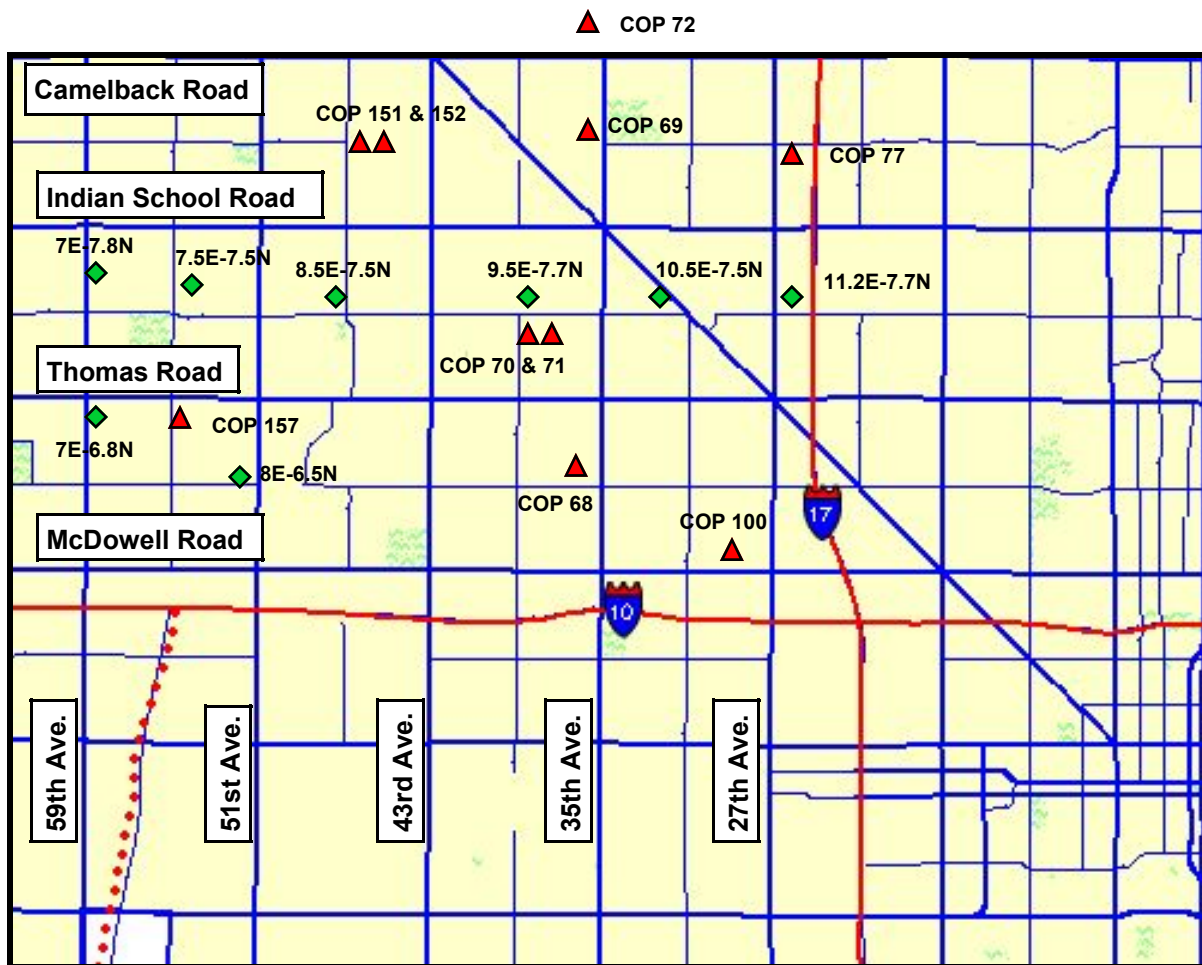


NOTE: Figure adapted from City of Phoenix Resources Plan Update



Figure 2-4

SRP Water Service Planning Areas



N



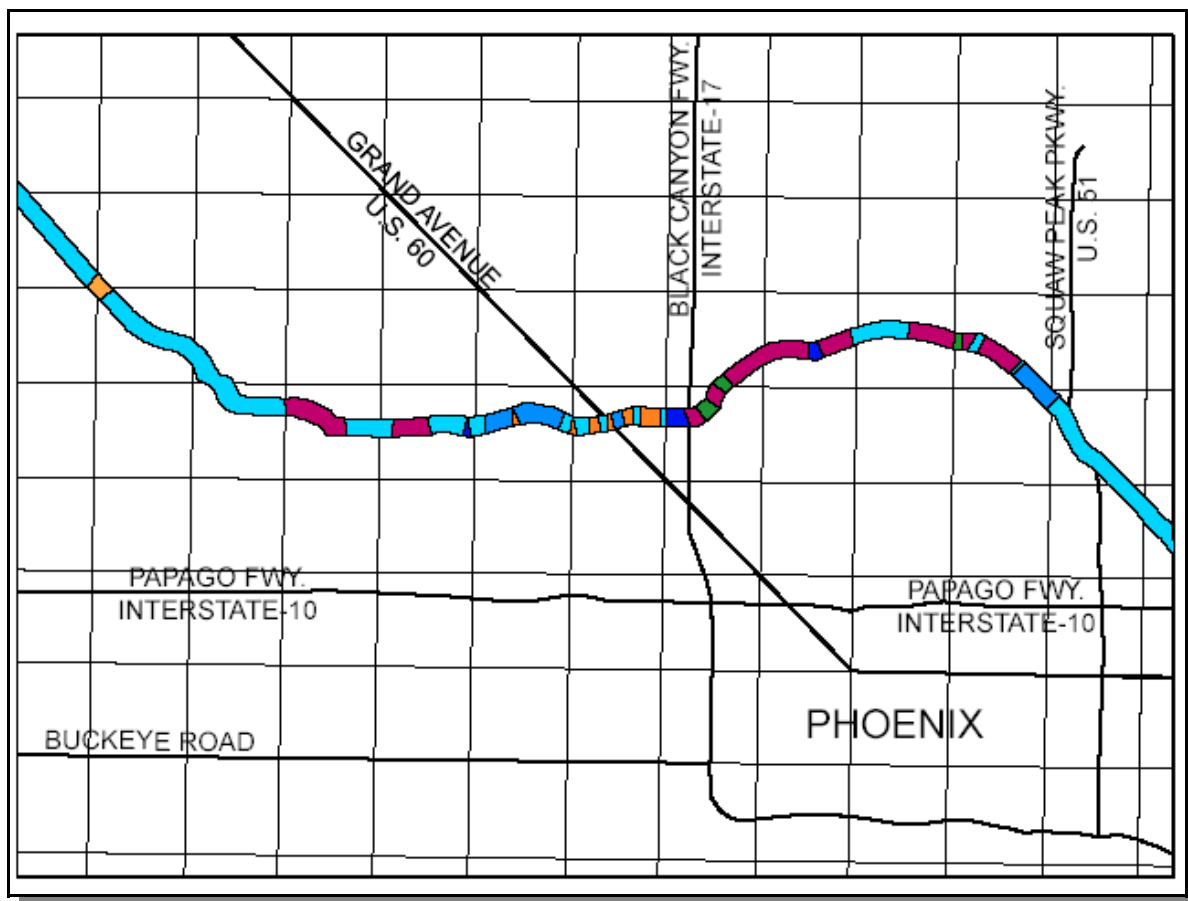
▲ City of Phoenix Well

◆ SRP Well



Figure 2-5

COP and SRP Wells Within the
West Central Phoenix Area



- Bottom and Bank Lining
- Bottom Lining Only
- Lining on Both Banks
- Lining on One Bank Only
- Unlined
- Piped
- Lining on Bottom and One Bank

NOTE: Figure adapted from the map of Lined and Unlined Canals by the Salt River Valley Water User's Association.



Figure 2-6

Lined and Unlined Sections
of the Grand Canal

APPENDIX A

Appendix A
Groundwater Monitoring Wells in the WCP WGA SiteVicinity¹

ADWR ID	LOCATION (T, R, Section, Acre160, Acre40, Acre10)	WELL TYPE	WELL USE	WATER USE	APPROVED/ INSTALLED	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEPTH	PUMP RATE	COMPANY	CANCELLED
527053	2N 2E 24 SW, SW, SW	EXPLORATION	GEOTECHNICAL	NONE		0	0		0	0	UNOCAL CORP,	Y
546408	2N 2E 25 NW, NW, NW	EXPLORATION	GEOTECHNICAL	NONE		0	0		0	0	MOBIL OIL CORP,	Y
522459	2N 2E 25 SW, SW, NW	EXPLORATION	CATHODIC	NONE	1/10/1989	260	0	PLASTIC OR PVC	260	0	SOUTHWEST GAS CORP,	
546922	2N 2E 26 NE, SW, SE	EXPLORATION	GEOTECHNICAL	NONE		0	0		0	0	VOPAK	Y
523566	2N 2E 26 NE, SE, SW	EXPLORATION	GEOTECHNICAL	NONE		0	0		0	0	PIONEER WEST CORP,	Y
534580	2N 2E 26 SW, SW, SW	EXPLORATION	ABANDONED	NONE	3/4/1992	110	0	PLASTIC OR PVC	110	0	ARCO PRODUCTS COMPANY	Y
526412	2N 2E 26 SW, SW, SW	EXPLORATION	GEOTECHNICAL	NONE	11/16/1989	100	100		0	0	RATHON CORP	
559775	2N 2E 26 SW, SE, SW	EXPLORATION	GEOTECHNICAL	NONE		0	0		0	0	WACHOVIA TRUST SVCS,	
534617	2N 2E 26 SE, NW, NW	EXPLORATION	CATHODIC	NONE	5/7/1992	260	0	BLACK STEEL-IRON SEAMLESS	260	0	SW GAS CORP,	
536974	2N 2E 35 NE, NW, NE	EXPLORATION	GEOTECHNICAL	NONE	11/4/1992	100	101		0	0	RTC METROPLEX CONS,	
537955	2N 2E 35 NW, NE, SE	EXPLORATION	GEOTECHNICAL	NONE		0	0		0	0	ALTHEN, MARC,	Y
574537	2N 2E 25 NW, NW, NE	GEOTECHNICAL	GEOTECHNICAL	NONE	8/13/2000	80	0		0	0	ARIZONA DEPT OF TRANSPORT	Y
567360	2N 2E 25 SW, SW, SE	GEOTECHNICAL	GEOTECHNICAL	NONE	3/20/1998	105	105	PLASTIC OR PVC	0	0	VANASSE, DON	
583156	2N 2E 26 NE, NE, NE	GEOTECHNICAL	GEOTECHNICAL	NONE	9/20/2000	0	0		0	0	EQUIVA SERVICES LLC	
575867	2N 2E 26 NE, SW, SE	GEOTECHNICAL	WATER PRODUCTION	TEST	9/17/1999	120	121		0	0	ARIZONA DEPARTMENT OF ENV	
570060	2N 2E 26 SE, NW, NW	GEOTECHNICAL	GEOTECHNICAL	NONE	8/18/1998	0	0		0	20	SUNBELT STORES, INC	
576653	2N 2E 26 SE, NW, NW	GEOTECHNICAL	GEOTECHNICAL	TEST	8/30/1999	0	0		0	0	SUNBELT STORES, INC	
586133	2N 2E 27 NE, NE, SW	GEOTECHNICAL				0	0		0	0	ARIZONA DEPARTMENT OF ENV	
578117	2N 2E 23 SW, SE, SW	MONITOR	MONITOR	TEST	11/22/1999	0	0		0	0	TOSCO MARKETING COMPANY	
578118	2N 2E 23 SW, SE, SW	MONITOR	MONITOR	TEST	11/22/1999	0	0		0	0	TOSCO MARKETING COMPANY	
585753	2N 2E 23 SW, SE, SW	MONITOR	MONITOR	TEST	3/2/2001	0	0		0	0	TOSCO MARKETING CO #2857	
585754	2N 2E 23 SW, SE, SW	MONITOR	MONITOR	TEST	3/2/2001	0	0		0	0	TOSCO MARKETING CO #2857	
581689	2N 2E 24 SW, NW, NW	MONITOR	MONITOR	TEST	7/28/2000	95	77	PLASTIC OR PVC	95	0	TOSCO MARKETING CORPORATI	
581691	2N 2E 24 SW, NW, NW	MONITOR	MONITOR	TEST	7/28/2000	95	77	PLASTIC OR PVC	95	0	TOSCO MARKETING CORPORATI	
581692	2N 2E 24 SW, NW, NW	MONITOR	MONITOR	TEST	7/28/2000	95	77	PLASTIC OR PVC	95	0	TOSCO MARKETING CORPORATI	
581693	2N 2E 24 SW, NW, NW	MONITOR	MONITOR	TEST	7/28/2000	95	77	PLASTIC OR PVC	95	0	TOSCO MARKETING CORPORATI	
581694	2N 2E 24 SW, NW, NW	MONITOR	MONITOR	TEST	7/28/2000	95	77	PLASTIC OR PVC	95	0	TOSCO MARKETING CORPORATI	
581697	2N 2E 24 SW, NW, NW	MONITOR	MONITOR	TEST	7/28/2000	95	77	PLASTIC OR PVC	95	0	TOSCO MARKETING CORPORATI	
581690	2N 2E 24 SW, NW, NW	MONITOR	MONITOR	TEST	7/28/2000	95	77	PLASTIC OR PVC	95	0	TOSCO MARKETING CORPORATI	

Appendix A
Groundwater Monitoring Wells in the WCP WGA SiteVicinity¹

ADWR ID	LOCATION (T, R, Section, Acre160, Acre40, Acre10)	WELL TYPE	WELL USE	WATER USE	APPROVED/ INSTALLED	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEPTH	PUMP RATE	COMPANY	CANCELLED
581695	2N 2E 24 SW, NW, NW	MONITOR	MONITOR	TEST	7/28/2000	95	77	PLASTIC OR PVC	95	0	TOSCO MARKETING CORPORATI	
581696	2N 2E 24 SW, NW, NW	MONITOR	MONITOR	TEST	7/28/2000	95	77	PLASTIC OR PVC	95	0	TOSCO MARKETING CORPORATI	
529407	2N 2E 25 NW, NW, NW	MONITOR	ABANDONED	MONITORING	9/14/1990	112	95	PLASTIC OR PVC	110	0	MOBIL OIL CORP	Y
546411	2N 2E 25 NW, NW, NW	MONITOR	ABANDONED	MONITORING	12/16/1994	123	84	PLASTIC OR PVC	123	0	MOBIL OIL CORP.	Y
522840	2N 2E 25 NW, NW, NW	MONITOR	ABANDONED	MONITORING	12/12/1988	95	0	PLASTIC OR PVC	90	0	MOBIL OIL CORP.	Y
529406	2N 2E 25 NW, NW, NW	MONITOR	ABANDONED	MONITORING	9/14/1990	112	94	PLASTIC OR PVC	110	0	MOBIL OIL CORP	Y
533112	2N 2E 25 NW, NW, NW	MONITOR	ABANDONED	MONITORING	10/17/1991	107	87	PLASTIC OR PVC	105	0	MOBIL OIL CORP.	Y
546410	2N 2E 25 NW, NW, NW	MONITOR	ABANDONED	MONITORING	12/16/1994	175	83	PLASTIC OR PVC	115	0	MOBIL OIL CORP.	Y
546992	2N 2E 25 NW, NW, NW	MONITOR	ABANDONED	MONITORING	12/20/1994	123	84	PLASTIC OR PVC	122	0	MOBIL OIL CORP.	Y
480793	2N 2E 25 NW, NW, NW	MONITOR				0	0		0	0		
580794	2N 2E 25 NW, NW, NW	MONITOR	MONITOR	TEST	8/21/2000	110	84	PLASTIC OR PVC	105	0	MOBIL OIL CORP.	
580795	2N 2E 25 NW, NW, NW	MONITOR	MONITOR	TEST	10/22/2000	106	88	PLASTIC OR PVC	106	0	MOBIL OIL CORP.	
580796	2N 2E 25 NW, NW, NW	MONITOR	MONITOR	TEST	6/7/2000	0	0		0	0	MOBIL OIL CORP.	
573804	2N 2E 25 SW, SW, NW	MONITOR	MONITOR	TEST	4/26/1999	120	0	PLASTIC OR PVC	90	0	VANASSE, DON	
573805	2N 2E 25 SW, SW, SW	MONITOR	MONITOR	TEST	4/27/1999	120	0	PLASTIC OR PVC	90	0	VANASSE, DON	
573806	2N 2E 25 SW, SW, SW	MONITOR	MONITOR	TEST	4/28/1999	120	0	PLASTIC OR PVC	90	0	VANASSE, DON	
583274	2N 2E 26 NE, NE, NE	MONITOR	MONITOR	TEST	10/3/2000	0	0		0	0	EQUIVA SERVICES LLC	
583276	2N 2E 26 NE, NE, NE	MONITOR	MONITOR	TEST	10/3/2000	0	0		0	0	EQUIVA SERVICES LLC	
583277	2N 2E 26 NE, NE, NE	MONITOR	MONITOR	TEST	10/3/2000	0	0		0	0	EQUIVA SERVICES LLC	
583275	2N 2E 26 NE, NE, NE	MONITOR	MONITOR	TEST	10/3/2000	0	0		0	0	EQUIVA SERVICES LLC	
584772	2N 2E 26 NE, NE, NW	MONITOR			12/26/2000	0	0		0	0	LEVITZ FURNITURE CORP	
584773	2N 2E 26 NE, NE, NW	MONITOR	MONITOR	TEST	12/26/2000	0	0		0	0	LEVITZ FURNITURE CORP	
584774	2N 2E 26 NE, NE, NW	MONITOR	MONITOR	TEST	2/19/2001	120	95	PLASTIC OR PVC	120	0	LEVITZ FURNITURE CORP	
584775	2N 2E 26 NE, NE, NW	MONITOR	MONITOR	TEST	2/15/2001	120	95	PLASTIC OR PVC	120	0	LEVITZ FURNITURE CORP	
584776	2N 2E 26 NE, NE, NW	MONITOR	MONITOR	TEST	2/14/2001	120	95	PLASTIC OR PVC	120	0	LEVITZ FURNITURE CORP	
584777	2N 2E 26 NE, NE, NW	MONITOR	MONITOR	TEST	2/13/2001	120	95	PLASTIC OR PVC	120	0	LEVITZ FURNITURE CORP	
575874	2N 2E 26 NE, SW, NE	MONITOR	MONITOR	TEST	12/3/1999	150	118	PLASTIC OR PVC	148	0	ARIZONA DEPARTMENT OF ENV	
575875	2N 2E 26 NE, SW, NW	MONITOR	MONITOR	TEST	9/24/1999	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
575868	2N 2E 26 NE, SW, SW	MONITOR	MONITOR	TEST	6/17/2000	300	0	PLASTIC OR PVC	280	0	ARIZONA DEPARTMENT OF ENV	
575873	2N 2E 26 NE, SW, SW	MONITOR	MONITOR	TEST	10/6/1999	150	118	PLASTIC OR PVC	148	0	ARIZONA DEPARTMENT OF ENV	
584666	2N 2E 26 NE, SE, NE	MONITOR	WATER PRODUCTION	TEST	12/14/2000	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
575870	2N 2E 26 NE, SE, NW	MONITOR	MONITOR	TEST	10/12/1999	149	117	PLASTIC OR PVC	106	0	ARIZONA DEPARTMENT OF ENV	
575869	2N 2E 26 NE, SE, SW	MONITOR	MONITOR	TEST	9/24/1999	150	120	PLASTIC OR PVC	150	0	ARIZONA DEPARTMENT OF ENV	

Appendix A
Groundwater Monitoring Wells in the WCP WGA SiteVicinity¹

ADWR ID	LOCATION (T, R, Section, Acre160, Acre40, Acre10)	WELL TYPE	WELL USE	WATER USE	APPROVED/ INSTALLED	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEPTH	PUMP RATE	COMPANY	CANCELLED
575871	2N 2E 26 NE, SE, SW	MONITOR	MONITOR	TEST	9/30/1999	145	116	PLASTIC OR PVC	143	0	ARIZONA DEPARTMENT OF ENV	
584131	2N 2E 26 NE, SE, SW	MONITOR	MONITOR	TEST	11/14/2000	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
584132	2N 2E 26 NE, SE, SW	MONITOR	MONITOR	TEST	11/14/2000	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
555473	2N 2E 26 NW, NE, NE	MONITOR	ABANDONED	MONITORING	3/18/1996	106	96	STEEL - PERFORATED OR	106	0	BIRD INCORPORATED	
584665	2N 2E 26 NW, SE, NE	MONITOR	MONITOR	TEST	12/13/2000	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
577763	2N 2E 26 NW, SE, SW	MONITOR	MONITOR	TEST	11/8/1999	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
584133	2N 2E 26 NW, SE, SE	MONITOR	MONITOR	TEST	11/14/2000	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
555475	2N 2E 26 SW, NE, NE	MONITOR	ABANDONED	NONE	3/18/1996	110	100	STEEL - PERFORATED OR	110	0	UPS OF AMERICA INC	Y
555476	2N 2E 26 SW, NE, NE	MONITOR	ABANDONED	NONE	3/18/1996	110	100	STEEL - PERFORATED OR	110	0	UPS OF AMERICA INC	Y
555474	2N 2E 26 SW, NE, NE	MONITOR	ABANDONED	NONE	3/18/1996	110	102	STEEL - PERFORATED OR	110	0	UPS OF AMERICA INC	Y
582358	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/19/2000	118	0	PLASTIC OR PVC	118	0	CERTAINT EED NORWOOD	
582359	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/6/2000	121	121	PLASTIC OR PVC	120	0	CERTAINT EED NORWOOD	
582360	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/23/2000	121	120	PLASTIC OR PVC	120	0	CERTAINT EED NORWOOD	
582361	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/28/2000	121	0	PLASTIC OR PVC	120	0	CERTAINT EED NORWOOD	
582362	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/10/2000	121	0	PLASTIC OR PVC	120	0	CERTAINT EED NORWOOD	
582364	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/2/2000	121	121	PLASTIC OR PVC	120	0	CERTAINT EED NORWOOD	
582365	2N 2E 26 SW, NE, NE	MONITOR			9/29/2000	121	0	PLASTIC OR PVC	120	0	CERTAINT EED NORWOOD	
582366	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/14/2000	137	119	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582367	2N 2E 26 SW, NE, NE	MONITOR			9/20/2000	137	121	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582370	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/18/2000	137	119	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582371	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/19/2000	136	120	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582372	2N 2E 26 SW, NE, NE	MONITOR			9/18/2000	137	121	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582374	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/21/2000	137	121	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582375	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/21/2000	137	120	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582376	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/22/2000	137	120	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582377	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/22/2000	137	120	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582378	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/26/2000	137	121	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582379	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/25/2000	137	121	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582380	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/26/2000	137	121	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582381	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/27/2000	137	121	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582382	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/27/2000	137	121	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582383	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/28/2000	137	121	PLASTIC OR PVC	137	0	CERTAINT EED NORWOOD	
582384	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/29/2000	137	122	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	

Appendix A
Groundwater Monitoring Wells in the WCP WGA SiteVicinity¹

ADWR ID	LOCATION (T, R, Section, Acre160, Acre40, Acre10)	WELL TYPE	WELL USE	WATER USE	APPROVED/ INSTALLED	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEPTH	PUMP RATE	COMPANY	CANCELLED
582386	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/3/2000	137	122	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582388	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/5/2000	137	122	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582389	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/13/2000	137	122	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582390	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	7/31/2000	137	122	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582391	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/10/2000	137	122	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582393	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/13/2000	136	122	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582394	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/11/2000	137	122	PLASTIC OR PVC	136	0	CERTAINT EED NORWOOD	
582363	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/12/2000	121	0	PLASTIC OR PVC	120	0	CERTAINT EED NORWOOD	
582369	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/14/2000	137	119	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582387	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/5/2000	137	122	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582392	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/13/2000	137	122	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582385	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	10/3/2000	137	122	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582373	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/20/2000	137	120	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
582368	2N 2E 26 SW, NE, NE	MONITOR	MONITOR	TEST	9/13/2000	137	119	PLASTIC OR PVC	135	0	CERTAINT EED NORWOOD	
585116	2N 2E 26 SW, NE, NW	MONITOR	MONITOR	TEST	1/22/2001	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
584903	2N 2E 26 SE, NW, NE	MONITOR	MONITOR	TEST	12/28/2000	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
585041	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	1/16/2001	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
570065	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	8/18/1998	0	0		0	0	SUNBELT STORES, INC	Y
570064	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	8/18/1998	0	0		0	0	SUNBELT STORES, INC	
570063	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	8/18/1998	0	0		0	0	SUNBELT STORES, INC	Y
570062	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	8/18/1998	0	0		0	0	SUNBELT STORES, INC	Y
570061	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	8/18/1998	0	0		0	0	SUNBELT STORES, INC	Y
575872	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	12/1/1999	150	118	PLASTIC OR PVC	148	0	ARIZONA DEPARTMENT OF ENV	
576648	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	8/31/1999	137	117	PLASTIC OR PVC	135	0	SUNBELT STORES, INC	
576649	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	9/1/1999	137	116	PLASTIC OR PVC	0	0	SUNBELT STORES, INC	
576650	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	9/2/1999	137	117	PLASTIC OR PVC	135	0	SUNBELT STORES, INC	
576651	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	9/10/1999	137	117	PLASTIC OR PVC	135	0	SUNBELT STORES, INC	
576652	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	8/30/1999	0	0		0	0	SUNBELT STORES, INC	
585117	2N 2E 26 SE, NW, NW	MONITOR	MONITOR	TEST	1/22/2001	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
577546	2N 2E 27 NE, NE, SW	MONITOR	MONITOR	TEST	10/20/1999	140	109	PLASTIC OR PVC	100	0	DIEHL, GREG	
577547	2N 2E 27 NE, NE, SW	MONITOR	MONITOR	TEST	10/20/1999	140	109	PLASTIC OR PVC	190	0	DIEHL, GREG	
577548	2N 2E 27 NE, NE, SW	MONITOR	MONITOR	TEST	10/20/1999	140	109	PLASTIC OR PVC	100	0	DIEHL, GREG	
577549	2N 2E 27 NE, NE, SW	MONITOR	MONITOR	TEST	10/20/1999	140	109	PLASTIC OR PVC	100	0	DIEHL, GREG	
585993	2N 2E 27 NE, NE, SW	MONITOR	MONITOR	TEST	3/13/2001	0	0		0	0	ARIZONA DEPARTMENT OF ENV	

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ADWR ID	LOCATION (T, R, Section, Acre160, Acre40, Acre10)	WELL TYPE	WELL USE	WATER USE	APPROVED/ INSTALLED	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEPTH	PUMP RATE	COMPANY	CANCELLED
585994	2N 2E 27 NE, NE, SW	MONITOR	MONITOR	TEST	3/13/2001	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
553744	2N 2E 27 NE, SE, NW	MONITOR	ABANDONED	MONITORING	1/22/1996	100	72	PLASTIC OR PVC	100	0	ARIZONA DEPARTMENT OF ENV	Y
553745	2N 2E 27 NE, SE, NW	MONITOR	ABANDONED	MONITORING	1/23/1996	110	85	PLASTIC OR PVC	110	0	ARIZONA DEPARTMENT OF ENV	Y
585616	2N 2E 27 NE, SE, NW	MONITOR	MONITOR	TEST	2/26/2001	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
585617	2N 2E 27 NE, SE, NW	MONITOR	MONITOR	TEST	2/26/2001	0	0		0	0	ARIZONA DEPARTMENT OF ENV	
553277	2N 2E 27 NE, SE, SW	MONITOR	ABANDONED	MONITORING	1/5/1996	100	90	STEEL - PERFORATED OR SLOTTED CASING	100	0	ARIZONA DEPARTMENT OF ENV	Y
573809	2N 2E 27 NE, SE, SW	MONITOR	MONITOR	TEST	3/31/1999	110	0	PLASTIC OR PVC	40	0	UNITED INDUSTRIAL CORPORA	
573812	2N 2E 27 NE, SE, SW	MONITOR	MONITOR	TEST	3/31/1999	0	0		0	0	UNITED INDUSTRIAL CORPORA	
573813	2N 2E 27 NE, SE, SW	MONITOR	MONITOR	TEST	3/31/1999	0	0		0	0	UNITED INDUSTRIAL CORPORA	
573814	2N 2E 27 NE, SE, SW	MONITOR	MONITOR	TEST	3/31/1999	0	0		0	0	UNITED INDUSTRIAL CORPORA	
573810	2N 2E 27 NE, SE, SW	MONITOR	MONITOR	TEST	3/31/1999	110	0	PLASTIC OR PVC	40	0	UNITED INDUSTRIAL CORPORA	
573811	2N 2E 27 NE, SE, SW	MONITOR	MONITOR	TEST	3/31/1999	110	0	PLASTIC OR PVC	40	0	UNITED INDUSTRIAL CORPORA	
555585	2N 2E 27 NE, SE, SE	MONITOR	ABANDONED	NONE	4/4/1996	115	97	PLASTIC OR PVC	115	0	TOSCO MARKETING COMPANY	Y
555588	2N 2E 27 NE, SE, SE	MONITOR	MONITOR	MONITORING	11/10/1999	0	0		0	0	TOSCO MARKETING COMPANY	Y
555589	2N 2E 27 NE, SE, SE	MONITOR	ABANDONED	NONE	11/10/1999	0	0		0	0	TOSCO MARKETING COMPANY	Y
555584	2N 2E 27 NE, SE, SE	MONITOR	ABANDONED	NONE		115	92	PLASTIC OR PVC	115	0	TOSCO MARKETING COMPANY	Y
555586	2N 2E 27 NE, SE, SE	MONITOR	ABANDONED	NONE	4/3/1996	115	97	PLASTIC OR PVC	115	0	TOSCO MARKETING COMPANY	Y
555587	2N 2E 27 NE, SE, SE	MONITOR	MONITOR	MONITORING	4/10/1996	115	97	PLASTIC OR PVC	115	0	TOSCO MARKETING COMPANY	Y
564732	2N 2E 27 SE, NE, NE	MONITOR	WATER PRODUCTION	TEST	4/11/1996	450	0	PLASTIC OR PVC	380	0	UNITED INDUSTRIAL CORPORA	
564733	2N 2E 27 SE, NE, NE	MONITOR	WATER PRODUCTION	TEST	10/9/1997	140	95	PLASTIC OR PVC	135	0	UNITED INDUSTRIAL CORPORA	
548356	2N 2E 27 SE, SE, NE	MONITOR	ABANDONED	MONITORING	11/8/1999	0	0		0	0	TOSCO CORPORATION	Y
548357	2N 2E 27 SE, SE, NE	MONITOR	ABANDONED	MONITORING	11/10/1999	0	0		0	0	TOSCO MARKETING CORPORATI	Y
576820	2N 2E 27 SE, SE, SE	MONITOR	MONITOR	TEST	9/14/1999	130	115	PLASTIC OR PVC	130	0	ARCO PRODUCTS COMPANY	
576821	2N 2E 27 SE, SE, SE	MONITOR	MONITOR	TEST	9/15/1999	130	115	PLASTIC OR PVC	130	0	ARCO PRODUCTS COMPANY	

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570759	2N 2E 35 NW, NE, SE	MONITOR	MONITOR	TEST	9/25/1998	0	0		0	0	PENSKE TRUCK LEASING COMP	Y
570760	2N 2E 35 NW, NE, SE	MONITOR			12/4/1998	110	108		0	0	PENSKE TRUCK LEASING COMP	Y
571773	2N 2E 35 NW, NE, SE	MONITOR	MONITOR	TEST	2/1/1999	0	0		0	0	PENSKE TRUCK LEASING COMP	Y
571774	2N 2E 35 NW, NE, SE	MONITOR	MONITOR	TEST	2/1/1999	0	0		0	0	PENSKE TRUCK LEASING COMP	Y
571775	2N 2E 35 NW, NE, SE	MONITOR	MONITOR	TEST	2/1/1999	0	0		0	0	PENSKE TRUCK LEASING COMP	Y
527050	2N 2E 24 SW, SW,SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	UNOCAL CORP,	Y
527051	2N 2E 24 SW, SW,SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	UNOCAL CORP,	Y
533774	2N 2E 24 SW, SW,SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	1/30/1992	110	87	PLASTIC OR PVC	107	0	SOUTHLAND CORP,	
533776	2N 2E 24 SW, SW,SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	1/30/1992	110	87	PLASTIC OR PVC	107	0	SOUTHLAND CORP,	
533777	2N 2E 24 SW, SW,SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	SOUTHLAND CORP,	Y
527052	2N 2E 24 SW, SW,SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	UNOCAL CORP,	Y
533773	2N 2E 24 SW, SW,SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	1/30/1992	110	87	PLASTIC OR PVC	107	0	SOUTHLAND CORP,	
533775	2N 2E 24 SW, SW,SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	1/30/1992	110	87	PLASTIC OR PVC	107	0	SOUTHLAND CORP,	
538702	2N 2E 25 NW, NW, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/23/1993	100	75	PLASTIC OR PVC	60	0	ADOT,	
538704	2N 2E 25 NW, NW, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/25/1993	100	75	PLASTIC OR PVC	60	0	ADOT,	
538703	2N 2E 25 NW, NW, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/24/1993	100	75	PLASTIC OR PVC	60	0	ADOT,	
522837	2N 2E 25 NW, NW, NW	MONITOR OR PIEZOMETER	OBSERVATION	MONITORING		0	0		0	0	MOBIL OIL CORP,	Y
522838	2N 2E 25 NW, NW, NW	MONITOR OR PIEZOMETER	OBSERVATION	MONITORING		0	0		0	0	MOBIL OIL CORP,	Y
522839	2N 2E 25 NW, NW, NW	MONITOR OR PIEZOMETER	OBSERVATION	MONITORING		0	0		0	0	MOBIL OIL CORP,	Y
522841	2N 2E 25 NW, NW, NW	MONITOR OR PIEZOMETER	OBSERVATION	MONITORING	12/12/1988	120	105	PLASTIC OR PVC	120	0	MOBIL OIL CORP,	
524018	2N 2E 25 NW, NW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/10/1989	115	100	PLASTIC OR PVC	110	0	MOBIL OIL CORP,	
524019	2N 2E 25 NW, NW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/31/1994	117	81	PLASTIC OR PVC	117	0	MOBIL OIL CORP,	
529408	2N 2E 25 NW, NW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	9/18/1990	112	95	PLASTIC OR PVC	110	0	MOBIL OIL CORP,	Y
547960	2N 2E 25 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/6/1995	120	94	PLASTIC OR PVC	120	0	PHOENIX PEST CONTROL,	
547958	2N 2E 25 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/1/1995	120	93	PLASTIC OR PVC	119	0	PHOENIX PEST CONTROL,	
547959	2N 2E 25 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/3/1995	120	93	PLASTIC OR PVC	120	0	PHOENIX PEST CONTROL,	
563713	2N 2E 25 SW, SW, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	8/8/1997	110	100	PLASTIC OR PVC	110	0	VANASSE, DON	

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531160	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/22/1991	120	97	PLASTIC OR PVC	120	0	ATR/MCI,	
544109	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	SCHNEIDER, KURT,D	Y
544110	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	BORINSTEIN, LLOYD,	Y
546409	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	MOBIL OIL CORP,	Y
555171	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/23/1996	115	97	PLASTIC OR PVC	115	0	BIRD INC,	
555839	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	BIRD INC,	
555840	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	BIRD IND,	
526629	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	1/16/1990	140	96	PLASTIC OR PVC	30	0	AMERICAN TELEVISION,	
531161	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/22/1991	120	97	PLASTIC OR PVC	120	0	ATR/MCI,	
552591	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	MCI TELECOMMUNICATN,	
555838	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	BIRD INC,	
555841	2N 2E 26 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	BIRD INC,	
545852	2N 2E 26 NE, NE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	10/13/1994	115	95	STEEL - PERFORATED OR	85	0	SOUTHWEST ROOFING,	
553923	2N 2E 26 NE, NE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/2/1996	100	86	PLASTIC OR PVC	100	0	LEVITZ FURNITURE CORP	
545851	2N 2E 26 NE, NE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	10/12/1994	115	95	STEEL - PERFORATED OR	85	0	SOUTHWEST ROOFING,	
545853	2N 2E 26 NE, NE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	10/14/1994	115	96	STEEL - PERFORATED OR	85	0	SOUTHWEST ROOFING,	
549993	2N 2E 26 NE, NE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	6/19/1995	100	86	PLASTIC OR PVC	75	0	LEVITZ FURNITURE CRP,	
553922	2N 2E 26 NE, NE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/15/1996	100	85	PLASTIC OR PVC	100	0	LEVITZ FURNITURE CORP	
553924	2N 2E 26 NE, NE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/2/1996	100	87	PLASTIC OR PVC	100	0	LEVITZ FURNITURE CORP	
533232	2N 2E 26 NE, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	SUNBELT INVEST. HOLD,	Y
547461	2N 2E 26 NW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/9/1995	125	95	PLASTIC OR PVC	125	0	ADEQ,	
524020	2N 2E 26 NW, SW, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	4/17/1989	98	98		0	0	PGL BUILDING PROD.,	
535334	2N 2E 26 NW, SW, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/23/1992	130	89	PLASTIC OR PVC	130	10	ADEQ,	
537381	2N 2E 26 NW, SW, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	11/27/1992	124	99	PLASTIC OR PVC	125	10	ADEQ,	
538224	2N 2E 26 SW, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/4/1993	110	0		0	0	SOUTHWEST ROOFING,	Y
538225	2N 2E 26 SW, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/5/1993	140	0		0	0	SOUTHWEST ROOFING,	
538228	2N 2E 26 SW, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	7/12/1993	130	98	PLASTIC OR PVC	95	0	SOUTHWEST ROOFING,	
542154	2N 2E 26 SW, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/2/1994	130	106	PLASTIC OR PVC	130	0	SOUTHWEST ROOFING,	

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542155	2N 2E 26 SW, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	SOUTHWEST ROOFING,	Y
538226	2N 2E 26 SW, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/10/1993	135	99	PLASTIC OR PVC	95	0	SOUTHWEST ROOFING,	Y
538227	2N 2E 26 SW, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/15/1993	130	100	PLASTIC OR PVC	95	0	SOUTHWEST ROOFING,	
552233	2N 2E 26 SW, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	10/24/1995	125	95	PLASTIC OR PVC	125	0	BIRD INC,	
547462	2N 2E 26 SW, NW, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/7/1995	130	95	PLASTIC OR PVC	125	0	ADEQ,	
535622	2N 2E 26 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	6/15/1992	130	105	STEEL - PERFORATED OR	100	0	DEXTER WATER MGMT	
536032	2N 2E 26 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	7/31/1992	130	101	PLASTIC OR PVC	130	0	ARCO PRODUCTS CO,	
536033	2N 2E 26 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	7/29/1992	130	102	PLASTIC OR PVC	130	0	ARCO PRODUCTS CO,	
536034	2N 2E 26 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	7/29/1992	145	98	PLASTIC OR PVC	145	0	ARCO PRODUCTS CO,	
561079	2N 2E 26 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/19/1997	120	100	PLASTIC OR PVC	90	0	DUHI INC	
533625	2N 2E 26 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	11/22/1991	120	110	STEEL - PERFORATED OR	120	0	SUNBELT INVESTMENTS,	
535620	2N 2E 26 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	6/15/1992	130	105		100	0	DEXTER WATER MGMT	
535621	2N 2E 26 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	6/15/1992	130	105	STEEL - PERFORATED OR	100	0	DEXTER WATER MGMT	
545742	2N 2E 26 SW, SW, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	10/5/1994	120	90	PLASTIC OR PVC	120	0	ARCO PRODUCTS CO,	
537281	2N 2E 26 SE, SE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	12/2/1992	90	0	PLASTIC OR PVC	90	0	GIFFORD-HILL PIPE CO,	
538662	2N 2E 26 SE, SE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	4/15/1993	125	0	STEEL - PERFORATED OR	125	0	UNIVERSAL TECH INST,	
560840	2N 2E 27 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/11/1997	105	90	PLASTIC OR PVC	80	0	SCARBOROUGH, ERNIE,	
560841	2N 2E 27 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/12/1997	105	90	PLASTIC OR PVC	80	0	SCARBOROUGH, ERNIE,	
560842	2N 2E 27 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/12/1997	105	90	PLASTIC OR PVC	80	0	SCARBOROUGH, ERNIE,	
561175	2N 2E 27 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/5/1997	105	90	PLASTIC OR PVC	105	0	SCARBOROUGH, ERNIE,	
561177	2N 2E 27 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/6/1997	105	90	PLASTIC OR PVC	85	0	SCARBOROUGH, ERNIE,	
560843	2N 2E 27 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	SCARBOROUGH, ERNIE	
561176	2N 2E 27 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/6/1997	105	90	PLASTIC OR PVC	105	0	SCARBOROUGH, ERNIE	
561178	2N 2E 27 NE, NE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	2/10/1997	105	90	PLASTIC OR PVC	80	0	SCARBOROUGH, ERNIE,	
534948	2N 2E 27 NE, NE, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/25/1992	110	88	PLASTIC OR PVC	110	10	ADEQ,	
535679	2N 2E 27 NE, NE, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	6/26/1992	110	85	PLASTIC OR PVC	110	10	ADEQ,	
561071	2N 2E 27 NE, SE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/17/1997	136	102	PLASTIC OR PVC	125	0	ADEQ,	
561073	2N 2E 27 NE, SE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/18/1997	127	102	PLASTIC OR PVC	97	0	ADEQ,	

Appendix A
Groundwater Monitoring Wells in the WCP WGA SiteVicinity¹

ADWR ID	LOCATION (T, R, Section, Acre160, Acre40, Acre10)	WELL TYPE	WELL USE	WATER USE	APPROVED/ INSTALLED	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEPTH	PUMP RATE	COMPANY	CANCELLED
561072	2N 2E 27 NE, SE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/19/1997	127	103	PLASTIC OR PVC	97	0	ADEQ,	
558431	2N 2E 27 NE, SE, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	10/15/1996	390	0	STEEL - PERFORATED OR	370	12	UNITED INDUSTRIAL CORPORA	
562004	2N 2E 27 NE, SE, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING		160	0	PLASTIC OR PVC	147	0	UNITED INDUSTRIAL CORPORA	
562005	2N 2E 27 NE, SE, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	UNITED INDUSTRIAL CORPORA	
558430	2N 2E 27 NE, SE, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	10/27/1996	810	0	STEEL - PERFORATED OR	810	7	UNITED INDUSTRIAL CORPORA	
558432	2N 2E 27 NE, SE, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	10/22/1996	350	0	STEEL - PERFORATED OR	290	12	UNITED INDUSTRIAL CORPORA	
558433	2N 2E 27 NE, SE, SW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	10/16/1996	290	0	STEEL - PERFORATED OR	285	12	UNITED INDUSTRIAL CORPORA	
532373	2N 2E 27 NE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	8/16/1991	100	65	PLASTIC OR PVC	100	0	MAY, CHARLES,	
532648	2N 2E 27 NE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	PERRI, EUGENE,R	Y
532372	2N 2E 27 NE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	8/16/1991	125	91	PLASTIC OR PVC	125	0	MAY, CHARLES,	
532374	2N 2E 27 NE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	MAY, CHARLES,	Y
532636	2N 2E 27 NE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	8/16/1991	131	96	PLASTIC OR PVC	90	0	PERRI, EUGENE,R	
534444	2N 2E 27 NE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	CAPITOL LIQUIDATORS ²	Y
534950	2N 2E 27 SE, NE, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/25/1992	120	82	PLASTIC OR PVC	120	10	ADEQ,	
548358	2N 2E 27 SE, SE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	CIRCLE K CORP,	
548359	2N 2E 27 SE, SE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	CIRCLE K CORP,	
548360	2N 2E 27 SE, SE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	CIRCLE K CORP,	
548361	2N 2E 27 SE, SE, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	CIRCLE K CORP,	
559528	2N 2E 27 SE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/22/1996	110	90	PLASTIC OR PVC	109	0	ARCO PRODUCTS CO,	
559529	2N 2E 27 SE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	ARCO PRODUCTS CO,	
559530	2N 2E 27 SE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	ARCO PRODUCTS CO,	
559531	2N 2E 27 SE, SE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	ARCO PRODUCTS CO,	
547942	2N 2E 35 NE, NW, NE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	RESOLUTION TRUST COR,P	Y
521049	2N 2E 35 NE, SW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/27/1988	130	92	PLASTIC OR PVC	125	0	SHAMROCK REAL ESTATE,	Y
521051	2N 2E 35 NE, SW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/27/1988	130	92	PLASTIC OR PVC	130	0	SHAMROCK REAL ESTATE,	Y
521878	2N 2E 35 NE, SW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/27/1988	125	90	PLASTIC OR PVC	125	0	SHAMROCK REAL ESTATE,	Y
522188	2N 2E 35 NE, SW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	9/1/1988	130	115	PLASTIC OR PVC	130	0	SHAMROCK REAL ESTATE,	Y
520572	2N 2E 35 NE, SW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/25/1988	80	0		0	0	SHAMROCK REAL ESTATE,	Y

Appendix A
Groundwater Monitoring Wells in the WCP WGA SiteVicinity¹

ADWR ID	LOCATION (T, R, Section, Acre160, Acre40, Acre10)	WELL TYPE	WELL USE	WATER USE	APPROVED/ INSTALLED	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEPTH	PUMP RATE	COMPANY	CANCELLED
521050	2N 2E 35 NE, SW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	5/27/1988	130	90	PLASTIC OR PVC	130	0	SHAMROCK REAL ESTATE,	Y
522189	2N 2E 35 NE, SW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	9/1/1988	130	115	PLASTIC OR PVC	130	0	SHAMROCK REAL ESTATE,	Y
527414	2N 2E 35 NW, NE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	6/4/1990	131	100	PLASTIC OR PVC	130	0	PENSKE TRUCK LEASING COMP	
527431	2N 2E 35 NW, NE, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING		0	0		0	0	PENSKE LEASING CO,	Y
559770	2N 2E 35 NW, NW, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	9/26/1996	110	99	PLASTIC OR PVC	110	0	GOODYEAR TIRE-RUBBER,	
559772	2N 2E 35 NW, NW, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	9/26/1996	110	97	PLASTIC OR PVC	110	0	GOODYEAR TIRE-RUBBER,	
559771	2N 2E 35 NW, NW, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	9/26/1996	110	97	PLASTIC OR PVC	110	0	GOODYEAR TIRE-RUBBER,	
559773	2N 2E 35 NW, NW, SE	MONITOR OR PIEZOMETER	MONITOR	MONITORING	9/26/1996	110	96	PLASTIC OR PVC	110	0	GOODYEAR TIRE-RUBBER,	
520571	2N 2E 35 NW, SW, NW	MONITOR OR PIEZOMETER	OBSERVATION	MONITORING	3/25/1988	80	0		0	0	MILNE TRUCK LINES,	Y
520573	2N 2E 35 NW, SW, NW	MONITOR OR PIEZOMETER	MONITOR	MONITORING	3/24/1988	130	95	PLASTIC OR PVC	130	0	SHAMROCK REAL ESTATE,	Y
520574	2N 2E 35 NW, SW, NW	MONITOR OR PIEZOMETER	OBSERVATION	MONITORING	3/25/1988	80	0		0	0	MILNE TRUCK LINES,	Y
534123	2N 2E 27 NE, SE, SE	WITHDRAWAL PERMIT	MONITOR	MONITORING	2/14/1992	135	105	PLASTIC OR PVC	95	0	UNITED INDUSTRIAL CORPORA	
563318	2N 2E 27 NE, SE, SW	WITHDRAWAL PERMIT	WATER PRODUCTION	INDUSTRIAL	10/28/1997	155	0	PLASTIC OR PVC	140	0	UNITED INDUSTRIAL CORP	
563319	2N 2E 27 NE, SE, SW	WITHDRAWAL PERMIT	WATER PRODUCTION	INDUSTRIAL	10/24/1997	0	0		0	0	UNITED INDUSTRIAL CORP	Y
563320	2N 2E 27 NE, SE, SW	WITHDRAWAL PERMIT	WATER PRODUCTION	INDUSTRIAL	10/24/1997	0	0		0	0	UNITED INDUSTRIAL CORP	Y
534122	2N 2E 27 NE, SE, SE	WITHDRAWAL PERMIT	WATER PRODUCTION	INDUSTRIAL	1/31/1992	125	95	PLASTIC OR PVC	85	0	UNITED INDUSTRIAL CORP	
533400	2N 2E 25 NW, NW, NW	WITHDRAWAL PERMIT	TEST	TEST							MOBIL OIL CORP,	
533399	2N 2E 25 NW, NW, NW	WITHDRAWAL PERMIT	TEST	TEST							MOBIL OIL CORP,	

¹ Information from the Arizona Department of Water Resources Well Database.

² Ownership information provided by ADEQ.

APPENDIX B

- # MEMORANDUM

3. What are the foreseeable future plans for the property (as far into the future as they know)? If own, do you plan on relocating? In what time frame? *No changes in property use as far as Mr. Jackson knows.*
4. Are there any groundwater wells on-site? *Yes, one.*
5. Do you own any wells off-site but in the area of contamination? *No*
6. What are the wells used for? *Bottled water. (Raw water from the well is put through several treatment stages prior to bottling: sand filtration, carbon adsorption, reverse osmosis, degassing unit, and a final micron filtration).*
7. Are there any projected changes to current uses of water from these wells? If yes, in what time frame? Describe changes. *No changes in the foreseeable future. There has been some discussion of installing an additional well for back-up purposes, however, no final decisions have been made at this time.*
8. Is there well construction/other pertinent data available?

Depth of well: *952 feet*

Screened Interval: *850 ft – 950 ft (Pump set at 650 ft with 10 ft of pump screen)*

Casing Type: *10-inch diameter, steel casing*

Pumping Data (volume): *225 gpm (pump operates approximately 16-18 hours per day, 5 days per week)*

Static Water Level: *106 ft (on 6/01)*

Draw Down: *355 ft (on 6/01) Note: Static water level is measured after the weekend shutdown period. Draw down is measured after the weeks production.*

Number of people served if used as drinking water supply? *Not Applicable*

PWS number? *NA*

Analytical data available? *Yes*

Frequency of sampling: *Annual full suite of analytes; weekly coliform bacteria*

Results: *VOCs have been non-detect*

Other? *Danone owns three different "Grandfather" water rights:*

58-100542.0000 (68 acre-feet)

58-111016.0002 (60 acre-feet)

58-102405.0002 (35 acre-feet)



MEMORANDUM

DATE: June 27, 2001

TO: Linda Pederson

FR: Rick Findlay
WESTON

RE: Michigan Trailer Park Drinking Water Well

Below is a copy of the questionnaire we are using for the Land & Water Use Studies for the West Central Phoenix WQARF sites.

Land & Water Uses Owner Interview Checklist

Facility Name: Michigan Trailer Park

Address: 3140 West Osborn., Phoenix, AZ

Contact Name: Linda Pederson; Controller

Address: 3101 West Peoria Ave, Suite A-208
Phoenix, AZ

Phone Number: (602) 978-2606

9. Is the property owned or leased?
Currently owned by Osborn Investors, however, the property is in escrow with an early August 2001 closing date.

Buyer information:

Name:	<i>Bryce Nuckols (Buyer)</i>
Address:	<i>1752 Pleasant View Drive</i> <i>Victor, MT 59875</i>
Phone Number:	<i>(406) 642-3668</i>

10. What is the current use of the property?

Mobile Home/RV Park: 150-pad capacity; average year round occupancy of 90 pads.

11. What are the foreseeable future plans for the property (as far into the future as they know)? If own, do you plan on relocating? In what time frame?
The prospective buyer has expressed a desire to increase the number of year round mobile homes and decrease the number of RV pads. The basic land use will remain the same.
12. Are there any groundwater wells on-site? *Yes, one. No information on date of construction, however, records show that the well, pump pressure tank, and distribution system was in place in 1946. Osborn Investors purchased the property in 1981 and upgraded the distribution system in 1985. A 10,000 gal. water storage tank was installed at that time.*
13. Do you own any wells off-site but in the area of contamination? *No*
14. What are the wells used for? *Domestic water supply for the Trailer Park.*
15. Are there any projected changes to current uses of water from these wells? If yes, in what time frame? Describe changes. *Dec. 1999 nitrate analysis detected nitrates above the MCL (32 ppm). Samples collected before that date and since that collection date were below MCLs. The Dec. 1999 data is thought to be anomalous. No plans to connect to city supplied water system at this time; however, Maricopa County may require the pump to be taken off-line if nitrate analyses are above MCL in the future.*
16. Is there well construction/other pertinent data available?

Depth of well	<i>400 feet</i>
Screened Interval	
Casing Type	<i>10-inch diameter, steel casing</i>
Pumping Data (volume)	<i>approximately 80 gpm</i>
Static Water Level	
Draw Down	

Number of people served if used as drinking water supply? *Approximately 135-180 people (based on average park occupancy).*

PWS number? 07671

Analytical data available? *Yes*

Frequency of sampling: *Nitrates: monthly; Bacteria: monthly; MAP (Monitoring Assistance Plan): yearly.*

Results: *Nitrate typically around 5 ppm with the exception of the Dec. 1999 result of 32 ppm; VOCs have been non-detected; bacteria is negative.*

Land & Water Uses Owner Interview Checklist

Facility Name: Century Wheel and Rim

Address: 2930 West Osborn Rd, Phoenix

Contact Name: Celeste Smith

Address: 1550 Gage Road

Montebello, CA 90640-6600

Phone Number: (323) 728-3901

Date: June 27, 2001

17. Do they own or lease the property?
Century Wheel and Rim owns the property

If leasing, who is the owner? Name:
 Address:
 Phone Number:

How long is the lease term?

Plans on renewing the lease?

18. What is the current use of the property?

Distribution of undercarriage and transportation parts.

19. What are the foreseeable future plans for the property (as far into the future as they know)? If own, do you plan on relocating? In what time frame?

No changes in the future that Celeste is aware of.

20. Are there any groundwater wells on-site, or within the area of contamination?

No.

21. Do they own any wells off-site but in the area of contamination?

No.

22. What are the wells used for?

23. Are there any projected changes to current uses of water from these wells? If yes, what time frame?

24. Is there well construction/other pertinent data available?

Depth

Screened Interval

Casing Type

Pumping Data (volume)

Number of people served if used as drinking water supply

PWS number

Analytical data available?

Frequency of sampling

Parameters

Results